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Improved performance of quantum well infrared photodetectors using random scattering optical coupling

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We demonstrate that a random scattering reflector on top of a quantum well infrared photodetector increases the optical coupling (i.e., increases the infrared absorption, responsivity, and detectivity) by an order of magnitude compared with a one-dimensional grating or 45° angle of incidence geometry. Applied Physics Letters is copyrighted by The American Institute of Physics.

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